RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/560,025_

Source: _1FWP_

Date Processed by STIC: _12/20/05_

ENTERED

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       RAW SEQUENCE LISTING              DATE: 12/20/2005
       PATENT APPLICATION:  US/10/560,025   TIME: 10:24:23

       Input Set : A:\PTO.DA.txt
       Output Set: N:\CRF4\12202005\J560025.raw
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   5 <110> APPLICANT: BIONEXIS
   9 <120> TITLE OF INVENTION: Molecules for Targeting and releasing Therapeutic Compounds,
and the use
  10        thereof
  14 <130> FILE REFERENCE: 3665-165
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/560,025
C--> 17 <141> CURRENT FILING DATE: 2005-12-08
  20 <150> PRIOR APPLICATION NUMBER: PCT/FR2004/001435
  21 <151> PRIOR FILING DATE: 2004-06-09
  24 <150> PRIOR APPLICATION NUMBER: FR 0306944
  25 <151> PRIOR FILING DATE: 2003-06-10
  28 <160> NUMBER OF SEQ ID NOS: 50
  32 <170> SOFTWARE: PatentIn version 3.1
  36 <210> SEQ ID NO: 1
  38 <211> LENGTH: 156
  40 <212> TYPE: PRT
  42 <213> ORGANISM: Homo sapiens
  46 <400> SEQUENCE: 1
  48 Asp Cys Arg Met Pro Met Gly Leu Ser Thr Gly Ile Ile Ser Asp Ser
  49 1               5                   10                  15
  52 Gln Ile Lys Ala Ser Glu Phe Leu Gly Tyr Trp Glu Pro Arg Leu Ala
  53              20                  25                  30
  56 Arg Leu Asn Asn Gly Gly Ser Tyr Asn Ala Trp Ser Val Glu Lys Leu
  57          35                  40                  45
  60 Ala Ala Glu Phe Ala Ser Lys Pro Trp Ile Gln Val Asp Met Gln Lys
  61      50                  55                  60
  64 Glu Val Ile Ile Thr Gly Ile Gln Thr Gln Gly Ala Lys His Tyr Leu
  65 65                  70                  75                  80
  68 Lys Ser Cys Tyr Thr Thr Glu Phe Tyr Val Ala Tyr Ser Ser Asn Gln
  69                  85                  90                  95
  72 Ile Asn Trp Gln Ile Phe Lys Gly Asn Ser Thr Arg Asn Val Met Tyr
  73              100                 105                 110
  76 Phe Asn Gly Asn Ser Asp Ala Ser Thr Ile Lys Glu Asn Gln Phe Asp
  77          115                 120                 125
  80 Pro Pro Ile Val Ala Arg Tyr Ile Arg Ile Ser Pro Thr Arg Ala Tyr
  81      130                 135                 140
  84 Asn Arg Pro Thr Leu Arg Leu Glu Leu Gln Gly Cys
  85 145                 150                 155
  88 <210> SEQ ID NO: 2
  90 <211> LENGTH: 156
  92 <212> TYPE: PRT
  94 <213> ORGANISM: Artificial Sequence
  98 <220> FEATURE:
 100 <223> OTHER INFORMATION: Polypeptide built on the basis of C1F5-S0
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102 <400> SEQUENCE: 2
104 Asp Cys Arg Met Pro Leu Gly Met Ser Thr Gly Ile Ile Ser Asp Ser
105 1               5                   10                  15
108 Gln Ile Lys Ala Ser Glu Phe Leu Gly Tyr Trp Glu Pro Arg Leu Ala
109             20                  25                  30
112 Arg Leu Asn Asn Gly Gly Ser Tyr Asn Ala Trp Ser Val Glu Lys Leu
113      .      35                  40                  45
116 Ala Ala Glu Phe Ala Ser Lys Pro Trp Leu Gln Ile Asp Met Gln Lys
117      50                  55                  60
120 Glu Val Ile Ile Thr Gly Ile Gln Thr Gln Gly Ala Lys His Tyr Leu
121 65                  70                  75                  80
124 Lys Ser Cys Tyr Thr Thr Glu Phe Tyr Ile Ala Tyr Ser Ser Asn Gln
125                  85                  90                  95
128 Ile Asn Trp Gln Ile Phe Lys Gly Asn Ser Thr Arg Asn Val Met Tyr
129              100                 105                 110
132 Phe Asn Gly Asn Ser Asp Ala Ser Thr Ile Lys Glu Asn Gln Leu Asp
133          115                 120                 125
136 Pro Pro Ile Val Ala Arg Tyr Ile Arg Ile Ser Pro Thr Arg Ala Tyr
137      130                 135                 140
140 Asn Arg Pro Thr Leu Arg Leu Glu Leu Gln Gly Cys
141 145                 150                 155
144 <210> SEQ ID NO: 3
146 <211> LENGTH: 156
148 <212> TYPE: PRT
150 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
156 <223> OTHER INFORMATION: Polypeptide built on the basis of C1F5-S0
158 <400> SEQUENCE: 3
160 Asp Cys Arg Met Pro Met Gly Leu Ser Thr Gly Ile Ile Ser Asp Ser
161 1               5                   10                  15
164 Gln Ile Lys Ala Ser Glu Phe Leu Gly Tyr Trp Trp Pro Arg Leu Ala
165             20                  25                  30
168 Arg Leu Asn Asn Gly Gly Ser Tyr Asn Ala Trp Ser Val Glu Lys Leu
169          35                  40                  45
172 Ala Ala Glu Phe Ala Ser Lys Pro Trp Ile Gln Val Asp Leu Gln Lys
173      50                  55                  60
176 Glu Val Ile Ile Thr Gly Ile Gln Thr Gln Gly Ala Lys His Tyr Leu
177 65                  70                  75                  80
180 Lys Ser Cys Tyr Val Thr Glu Phe Tyr Val Ala Tyr Ser Ser Asn Gln
181                  85                  90                  95
184 Ile Asn Trp Gln Ile Phe Lys Tyr Asn Ser Thr Arg Asn Val Met Tyr
185              100                 105                 110
188 Phe Asn Gly Asn Ser Asp Ala Ser Thr Ile Lys Glu Asn Gln Phe Asp
189          115                 120                 125
192 Pro Pro Leu Val Ala Arg Tyr Ile Arg Ile Ser Pro Thr Arg Ala Tyr
193      130                 135                 140
196 Asn Arg Ile Thr Leu Arg Leu Glu Leu Gln Gly Cys
197 145                 150                 155
200 <210> SEQ ID NO: 4
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202 <211> LENGTH: 156
204 <212> TYPE: PRT
206 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
212 <223> OTHER INFORMATION: Polypeptide built on the basis of C1F5-S0
214 <400> SEQUENCE: 4
216 Asp Cys Arg Met Pro Met Gly Leu Ser Thr Gly Ile Ile Ser Asp Ser
217 1               5                   10                  15
220 Gln Ile Lys Ala Ser Glu Phe Leu Gly Tyr Trp Glu Pro Arg Leu Ala
221             20              25              30
224 Arg Leu Asn Asn Gly Gly Ser Tyr Asn Ala Trp Ser Val Glu Lys Leu
225         35              40              45
228 Ala Ala Glu Phe Ala Ser Lys Pro Trp Leu Gln Ile Asp Leu Gln Lys
229     50              55              60
232 Glu Val Ile Ile Thr Gly Ile Gln Thr Gln Gly Ala Lys His Tyr Leu
233 65              70              75              80
236 Lys Ser Cys Tyr Thr Thr Glu Phe Tyr Ile Ala Tyr Ser Ser Asn Gln
237         85              90              95
240 Ile Asn Trp Gln Ile Phe Lys Gly Asn Ser Thr Arg Asn Val Met Tyr
241         100             105             110
244 Phe Asn Gly Asn Ser Asp Ala Ser Thr Ile Lys Glu Asn Gln Leu Asp
245         115             120             125
248 Pro Pro Ile Val Ala Arg Tyr Ile Arg Ile Ser Pro Thr Arg Ala Tyr
249     130             135             140
252 Asn Arg Pro Thr Leu Arg Leu Glu Leu Gln Gly Cys
253 145             150             155
256 <210> SEQ ID NO: 5
258 <211> LENGTH: 150
260 <212> TYPE: PRT
262 <213> ORGANISM: homo sapiens
266 <400> SEQUENCE: 5
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269 1               5                   10                  15
272 Gln Ile Thr Ala Ser Gly Gln Tyr Gly Gln Trp Ala Pro Lys Leu Ala
273             20              25              30
276 Arg Leu His Tyr Ser Gly Ser Ile Asn Ala Trp Ser Thr Lys Glu Pro
277         35              40              45
280 Phe Ser Trp Ile Lys Val Asp Leu Leu Ala Pro Met Ile Ile His Gly
281     50              55              60
284 Ile Lys Thr Gln Gly Ala Arg Gln Lys Phe Ser Ser Leu Tyr Ile Ser
285 65              70              75              80
288 Gln Phe Ile Ile Met Tyr Ser Leu Asp Gly Lys Lys Trp Gln Thr Tyr
289         85              90              95
292 Arg Gly Asn Ser Thr Gly Thr Leu Met Val Phe Phe Gly Asn Val Asp
293         100             105             110
296 Ser Ser Gly Ile Lys His Asn Ile Phe Asn Pro Pro Ile Ile Ala Arg
297         115             120             125
300 Tyr Ile Arg Leu His Pro Thr His Tyr Ser Ile Arg Ser Thr Leu Arg
301         130             135             140
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305 145                 150
308 <210> SEQ ID NO: 6
310 <211> LENGTH: 150
312 <212> TYPE: PRT
314 <213> ORGANISM: Artificial Sequence
318 <220> FEATURE:
320 <223> OTHER INFORMATION: Polypeptide built on the basis of C1F8-S0
322 <400> SEQUENCE: 6
324 Lys Cys Gln Thr Pro Met Gly Leu Ala Ser Gly His Ile Arg Asp Phe
325 1               5                   10                  15
328 Gln Ile Thr Ala Ser Gly Gln Tyr Gly Gln Trp Ala Pro Lys Leu Ala
329             20                  25                  30
332 Arg Leu His Tyr Ser Gly Ser Ile Asn Ala Trp Ser Thr Lys Glu Pro
333             35                  40                  45
336 Phe Ser Trp Leu Lys Ile Asp Leu Leu Ala Pro Met Ile Ile His Gly
337     50                  55                  60
340 Ile Lys Thr Gln Gly Ala Arg Gln Lys Phe Ser Ser Leu Tyr Ile Ser
341 65                  70                  75                  80
344 Gln Tyr Ile Ile Met Tyr Ser Leu Asp Gly Lys Lys Trp Gln Thr Tyr
345                 85                  90                  95
348 Arg Gly Asn Ser Thr Gly Thr Leu Met Val Phe Phe Gly Asn Val Asp
349             100                 105                 110
352 Ser Ser Gly Ile Lys His Asn Ile Phe Asn Pro Pro Ile Ile Ala Arg
353             115                 120                 125
356 Tyr Ile Arg Leu His Pro Thr His Tyr Ser Ile Arg Ser Thr Leu Arg
357     130                 135                 140
360 Met Glu Leu Met Gly Cys
361 145                 150
364 <210> SEQ ID NO: 7
366 <211> LENGTH: 150
368 <212> TYPE: PRT
370 <213> ORGANISM: Artificial Sequence
374 <220> FEATURE:
376 <223> OTHER INFORMATION: Polypeptide built on the basis of C1F8-S0
378 <400> SEQUENCE: 7
380 Lys Cys Gln Thr Pro Met Gly Leu Ala Ser Gly His Ile Arg Asp Phe
381 1               5                   10                  15
384 Gln Ile Thr Ala Ser Gly Gln Tyr Gly Gln Trp Ala Pro Lys Leu Ala
385             20                  25                  30
388 Arg Leu His Tyr Ser Gly Ser Ile Asn Ala Trp Ser Thr Lys Glu Pro
389             35                  40                  45
392 Phe Ser Trp Ile Lys Val Asp Leu Leu Ala Pro Met Ile Ile His Gly
393     50                  55                  60
396 Val Lys Thr Gln Gly Ala Arg Gln Lys Phe Ser Ser Leu Tyr Ile Ser
397 65                  70                  75                  80
400 Gln Phe Ile Ile Met Tyr Ser Leu Asp Gly Lys Lys Trp Gln Thr Tyr
401                 85                  90                  95
404 Arg Tyr Asn Ser Thr Gly Thr Leu Met Val Phe Phe Gly Asn Val Asp
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Input Set : **A:\PTO.DA.txt**
Output Set: **N:\CRF4\12202005\J560025.raw**

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405              100            105            110
408 Ser Ser Gly Ile Lys His Asn Ile Phe Asn Pro Pro Leu Ile Ala Arg
409         115            120            125
413 Tyr Ile Arg Leu His Pro Thr His Tyr Ser Ile Arg Ser Thr Leu Arg
414     130            135            140
417 Met Glu Leu Met Gly Cys
418 145               150
421 <210> SEQ ID NO: 8
423 <211> LENGTH: 150
425 <212> TYPE: PRT
427 <213> ORGANISM: Artificial Sequence
431 <220> FEATURE:
433 <223> OTHER INFORMATION: Polypeptide built on the basis of C1F8-S0
435 <400> SEQUENCE: 8
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438 1            5            10            15
441 Gln Ile Thr Ala Ser Gly Gln Tyr Gly Gln Trp Trp Pro Lys Leu Ala
442         20            25            30
445 Arg Leu His Tyr Ser Gly Ser Ile Asn Ala Trp Ser Thr Lys Glu Pro
446         35            40            45
449 Phe Ser Trp Leu Lys Ile Asp Leu Leu Ala Pro Met Ile Ile His Gly
450     50            55            60
453 Ile Lys Thr Gln Gly Ala Arg Gln Lys Phe Ser Ser Leu Tyr Ile Ser
454 65            70            75            80
457 Gln Phe Ile Ile Met Tyr Ser Leu Asp Gly Lys Lys Trp Gln Thr Tyr
458         85            90            95
461 Arg Gly Asn Ser Thr Gly Thr Leu Met Val Phe Phe Gly Asn Val Asp
462         100            105            110
465 Ser Ser Gly Ile Lys His Asn Ile Phe Asn Pro Pro Leu Leu Ala Arg
466         115            120            125
469 Tyr Ile Arg Leu His Pro Thr His Tyr Ser Ile Arg Ser Thr Leu Arg
470     130            135            140
473 Met Glu Val Met Gly Cys
474 145               150
477 <210> SEQ ID NO: 9
479 <211> LENGTH: 159
481 <212> TYPE: PRT
483 <213> ORGANISM: homo sapiens
487 <400> SEQUENCE: 9
489 Cys Ser Thr Pro Leu Gly Met Glu Asn Gly Lys Ile Glu Asn Lys Gln
490 1            5            10            15
493 Ile Thr Ala Ser Ser Phe Lys Lys Ser Trp Trp Gly Asp Tyr Trp Glu
494         20            25            30
497 Pro Phe Arg Ala Arg Leu Asn Ala Gln Gly Arg Val Asn Ala Trp Gln
498         35            40            45
501 Ala Lys Ala Asn Asn Asn Lys Gln Trp Leu Glu Ile Asp Leu Leu Lys
502     50            55            60
505 Ile Lys Lys Ile Thr Ala Ile Ile Thr Gln Gly Cys Lys Ser Leu Ser
506 65            70            75            80
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 12/20/2005
PATENT APPLICATION: US/10/560,025   TIME: 10:24:25

Input Set : **A:\PTO.DA.txt**
Output Set: **N:\CRF4\12202005\J560025.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:18; Xaa Pos. 2,7,9,11,12,14,15,16,17,21,22,23,27,28,37,40,42,44,46,47
Seq#:18; Xaa Pos. 49,54,61,67,68,72,73,74,75,76,77,84
Seq#:34; Xaa Pos. 7,8,11,12,13,14,16,19,20,21,22,23,24,25,26,27,28,29,30

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 9

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/560,025**

DATE: 12/20/2005
TIME: 10:24:25

Input Set : **A:\PTO.DA.txt**
Output Set: **N:\CRF4\12202005\J560025.raw**

L:16 M:270 C: Current Application Number differs, Replaced Current Application Number
L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:1292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:16
L:1296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:32
L:1300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:48
L:1304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:64
L:1308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:80
L:2058 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:2062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:16